Contents

J.E. LAIRD (Ann Arbor, MI), A. NEWELL (Pittsburgh, PA) and P.S. ROSENBLOOM (Stanford, CA)
1 SOAR: An Architecture for General Intelligence

R.E. KORF (Los Angeles, CA)
65 Planning as Search: A Quantitative Approach

Y. SHOHAM (New Haven, CT)
89 Temporal Logics in AI: Semantical and Ontological Considerations

J.P. DELGRANDE (Burnaby, BC)
105 A First-Order Conditional Logic for Prototypical Properties

131 ADDENDUM

133 BOOK RECEIVED

BOOK REVIEWS

135 "Mind over Machine: The Power of Human Intuition and Expertise in the Era of the Computer" by H.L. Dreyfus and S.E. Dreyfus, reviewed by T.D. Koschmann

141 "Robot Technology, Volume 1: Modelling and Control" and "Robot Technology, Volume 2: Interaction with the Environment" by P. Coiffet, reviewed by S. Rock

143 ANNOUNCEMENTS

153 FORTHCOMING PAPERS

B.A. HUBERMAN and T. HOGG (Palo Alto, CA)
155 Phase Transitions in Artificial Intelligence Systems

J. PEARL (Los Angeles, CA)
173 Distributed Revision of Composite Beliefs

S.N. SRIHARI and R.M. BOŽINOVIĆ (Buffalo, NY)
217 A Multi-Level Perception Approach to Reading Cursive Script

257 BOOKS RECEIVED

BOOK REVIEW

259 "Conceptual Structures: Information Processing in Mind and Machine" by J.F. Sowa, reviewed by S.W. Smoliar

267 ANNOUNCEMENTS

269 FORTHCOMING PAPERS

G. SHAFER and R. LOGAN (Lawrence, KS)
271 Implementing Dempster's Rule for Hierarchical Evidence

H.-H. NAGEL (Karlsruhe, F.R.G.)
299 On the Estimation of Optical Flow: Relations between Different Approaches and Some New Results

P.S. JACOBS (Schenectady, NY)
325 Knowledge-Intensive Natural Language Generation

S. HANKS and D. McDERMOTT (New Haven, CT)
379 Nonmonotonic Logic and Temporal Projection

ERRATA

BOOK REVIEW

415 'Computation and Cognition: Toward a Foundation for Cognitive Science' by Z. Pylyshyn, reviewed by N. Ward

419 FORTHCOMING PAPERS

422 AUTHOR INDEX - Volume 33, 1987

423 CONTENTS - Volume 33, 1987